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### **Photocatalyst and Methods of Making such**

The conversion efficiency of existing photocatalysts may decrease with increasing humidity level. The photocatalyst of this invention is made by first mixing an alcohol, a titanium alkoxide and a binder in the presence of a catalytic acid to form a mixture. This mixture is then heated at about 100°C for at least 2 hours, and then calcinated at about 450°C for at least 2 hours. The resulting catalyst is found to have improved efficacy at high humidity level.